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Claims

- 1. An anti-microbial composition comprising:
- (i) a C₁ to C₄ monohydric alcohol carrier fluid, present at a level of at least 25% by weight of the total composition (excluding any volatile propellant present);
 - (ii) an iron (III) chelator having an iron (III) binding constant of 10²³ or greater;
- 10 (iii) a solubility promoter selected from the group consisting of:
 - (a) water;
 - (b) an organic amine;
 - (c) a polyhydric alcohol or derivative thereof;
 - (d) a volatile propellant having fluorine-carbon or oxygen-carbon bonds;
 - (e) any combination of (a) to (d).
 - An anti-microbial composition according to claim 1, that
 is a deodorant composition for use on the human body or
 on apparel worn in close proximity thereto.
 - An anti-microbial composition according to claim 1 or 2, that is a homogeneous solution.
 - An anti-microbial composition according to claim 3, that is a homogeneous solution in aqueous ethanol.
- 5. An anti-microbial composition according to any of the preceding claims, wherein the weight ratio of C_1 - C_4 monohydric alcohol carrier fluid to water is greater than 65:35.

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- 6. An anti-microbial composition according to any of the preceding claims, wherein the weight ratio of C_1 - C_4 monohydric alcohol carrier fluid to water is greater than 75:25 and the solubility promoter comprises an organic amine.
- 7. An anti-microbial composition according to claim 6, wherein the organic amine is present at a level sufficient to neutralise at least 60% of any acid groups on the iron (III) chelator.
- 8. An anti-microbial composition according to claim 6 or 7, wherein the organic amine is present at a level sufficient to lead to an aqueous solution of the chelator salt having a pH of between 6 and 8 (at a molar concentration of chelator salt equal to that present in the composition).
- An anti-microbial composition according to any of the preceding claims, wherein the iron (III) chelator has a binding coefficient for iron (III) of greater than 10²⁶.
 - 10. An anti-microbial composition according to any of the preceding claims, wherein the iron (III) chelator is a polyaminocarboxylic acid or salt thereof.
 - 11. An anti-microbial composition according to any of the preceding claims, wherein the iron (III) chelator has an acid form with at least five ionisable acid groups.

- 12. An anti-microbial composition according to claim 10, wherein the iron (III) chelator is diethylenetriaminepentaacetic acid or a salt thereof.
- 5 13. An anti-microbial composition according to any of the preceding claims, wherein the chelator is present at a concentration of 0.01% to 10% by weight of the composition, excluding any volatile propellant present.
- 10 14. An anti-microbial composition according to any of the preceding claims, comprising an additional antimicrobial agent.
- 15. An anti-microbial composition according to claim 14 wherein the additional anti-microbial agent is a cationic bactericide.
 - 16. An anti-microbial composition according to any of the preceding claims, comprising fragrance material at up to 4% by weight of the composition, excluding any volatile propellant present.
 - 17. An anti-microbial composition according to any of the preceding claims, that comprises a volatile propellant.
 - 18. An anti-microbial composition according to claim 17, wherein the volatile propellant comprises from 30 to 99% by weight of the total composition.
- 30 19. An anti-microbial composition according to claim 18, that comprises greater than 40% by weight of volatile propellant and a solubility promoter selected from the group comprising:

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- (a) an organic amine free of any N-H bonds and/or O-H bonds;
- (b) an organic amine and a polyhydric alcohol or derivative thereof;
- (c) an organic amine and a volatile propellant having fluorine-carbon or oxygen-carbon bonds.
- 20. An anti-microbial composition according to any of claims 10 17 to 19, wherein the weight ratio of C_1 - C_4 monohydric alcohol carrier fluid to water is between 95:5 and 99:1.
 - 21. An anti-microbial composition according to any of claims 17 to 19, wherein the weight ratio of $C_1\text{-}C_4$ monohydric alcohol carrier fluid to water is greater than 99:1.
 - 22. A method of controlling microbial numbers, said method comprising the application to a substrate of an antimicrobial composition according to any of the preceding claim.
 - 23. A cosmetic method of inhibiting the generation of malodour comprising the topical application to the human body or to apparel worn in close proximity thereto of a composition according any one of claims 2 to 21.
 - 24. A cosmetic method of delivering enhanced fragrance intensity comprising the topical application to the human body or to apparel worn in close proximity thereto of a composition according any one of claims 2 to 21 that also comprises a fragrance material.

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- 25. A method for the manufacture of an anti-microbial composition, said method comprising the formation of a solution of an iron (III) chelator having an iron (III) binding constant of 10²³ or greater in a C₁ to C₄ monohydric alcohol carrier fluid, present at a level of at least 25% by weight of the total composition (excluding any volatile propellant present), and also comprising a solubility promoter selected from the group consisting of:
- (a) water;
 - (b) an organic amine;
 - (c) a polyhydric alcohol or derivative thereof;
 - (d) a volatile propellant having fluorine-carbon or oxygen-carbon bonds;
 - (d) any combination of (a) to (d).
- 26. A method for the manufacture of an anti-microbial composition according to claim 25, comprising the addition of the chelator and an organic amine to water to form an aqueous solution, followed by dilution with the C_1 to C_4 monohydric alcohol carrier fluid to form an aqueous alcohol solution, optionally followed by pressurisation with a liquified volatile propellant.